

T-01-15

BY126MGP, BY127MGP/BY226MGP, BY227MGP

MINIATURE GLASS PASSIVATED JUNCTION PLASTIC RECTIFIER

**GENERAL
INSTRUMENT****FEATURES**

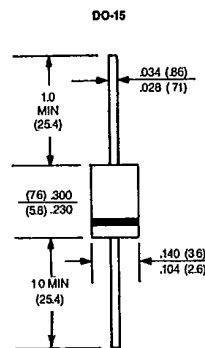
- High temperature metallurgically bonded constructed rectifiers
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction in DO-15 package
- 1.5 ampere operation at $T_A = 55^\circ\text{C}$ with no thermal runaway
- Typical I_n less than $1 \mu\text{A}$
- Exceeds environmental standards of MIL-STD-19500
- High temperature soldering guaranteed $350^\circ\text{C}/10$ seconds/.375", (9.5mm) lead length at 5 lbs., (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic over glass
 Terminals: Axial leads, solderable per
 MIL-STD-202, Method 208
 Polarity: Color band denotes cathode
 Mounting position: Any
 Weight: 0.015 ounce, 0.4 gram

VOLTAGE RANGE
 650 and 1250 Volts

CURRENT
 1.75 and 2.0 Amperes

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 50 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

	BY126MGP	BY127MGP	BY226MGP	BY227MGP	UNITS
Maximum Recurrent Peak Reverse Voltage	650	1250	650	1250	V_{RRM}
Maximum RMS Voltage	455	875	455	875	V_{RMS}
Maximum DC Blocking Voltage	650	1250	650	1250	V_{DC}
Maximum Average Forward Rectified Current .375", (9.5mm) Lead Length at $T_A = 55^\circ\text{C}$	1.75		2.0		A_{AV}
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	50		60		A_{PK}
Maximum Instantaneous Forward Voltage at 5.0A			1.5		V_{PK}
Maximum Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$			5.0		μA
Maximum Full Load Reverse Current, Full Cycle Average, .375", 9.5mm Lead Length at $T_A = 55^\circ\text{C}$			100		μA
Typical Junction Capacitance (Note 1)			25		pF
Typical Reverse Recovery Time (Note 2)			2.0		μs
Operating and Storage Temperature Range T_J, T_{STG}			-65 to +175		$^\circ\text{C}$

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC.
2. Measured with $I_F = .5\text{A}$, $I_n = 1\text{A}$, $I_{RR} = .25\text{A}$.

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RATING AND CHARACTERISTIC CURVES
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